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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,415	02/14/2006	Piero Petrini	06008	7566
	7590 08/08/200 CHULTZ & MACDO	EXAMINER		
1727 KING STREET			WISTERMAYER, ALEXIS M	
SUITE 105 ALEXANDRIA	A, VA 22314		ART ÜNIT	PAPER NUMBER
	,		3709	
		•		
		•	MAIL DATE	DELIVERY MODE
			08/08/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		•		/			
Office Action Summary		Application No.	Applicant(s)				
		10/568,415	PETRINI ET AL.				
		Examiner	Art Unit				
		Alexis M. Wistermayer	3709				
Period fo	<ul> <li>The MAILING DATE of this communication apport Reply</li> </ul>	pears on the cover sheet with	h the correspondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re- vill apply and will expire SIX (6) MONT , cause the application to become ABA	ATION. ply be timely filed  HS from the mailing date of this communication NDONED (35 U.S.C. § 133).				
Status			,				
1)⊠	Responsive to communication(s) filed on 14 Fe	ebruary 2006.					
·	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3)	<u> </u>						
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposit	ion of Claims						
4)⊠	Claim(s) 1-16 is/are pending in the application.						
-	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	Claim(s) is/are allowed.						
6)⊠	Claim(s) 1-16 is/are rejected.						
7)	Claim(s) is/are objected to.		•				
8)	Claim(s) are subject to restriction and/o	r election requirement.					
Applicati	ion Papers	•					
9)[	The specification is objected to by the Examine	r.	•				
	The drawing(s) filed on is/are: a) acce		y the Examiner.				
	Applicant may not request that any objection to the	· ·	-				
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s	) is objected to. See 37 CFR 1.121	(d).			
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached	Office Action or form PTO-152.				
Priority ι	under 35 Ú.S.C. § 119						
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).				
a)	a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents have been received.						
	<ul> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>						
			eceived in this National Stage				
* 5	application from the International Bureau See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	eceived				
Attachmen	t(s)	·					
	e of References Cited (PTO-892)		mmary (PTO-413)				
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)		/Mail Date ormal Patent Application				
	r No(s)/Mail Date <u>11/9/06</u> .	6)  Other:	-'				

Art Unit: 3709

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

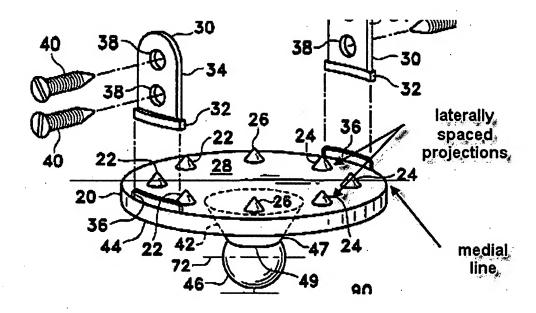
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 through 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Xavier et al (US Pat 6063121).

Regarding Claims 1 through 3: Xavier et al. teach an elastic body/disc cushion (Figure 3 Element 80) with a means of securing the elastic body (Figure 3 Elements 20, 30, and 40). The securing means comprises an anchoring plate (Figure 3 Elements 20, 30 and 32). The anchoring plate taught by Xavier et al. is made of a substantially rigid material, namely metal (Column 4 Lines 50 through 65).

Regarding Claims 4 through 7: Xavier et al. teach prosthesis: having at least three projections on each anchoring plate (Figure 3 Elements 24 attached to plate 20 and Elements 52 attached to plate 48), where, if a medial line is drawn, each plate includes a median projection and at least two laterally spaced projections, where the median projection is sufficiently thin. See drawing below of top plate member (Figure 3 in reference).

Art Unit: 3709



Regarding Claim 8: Xavier et al. teach prosthesis with a connection means to the aforementioned securing means (Figure 1 Element 94).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Xavier et al (US Pat 6,063,121).

Art Unit: 3709

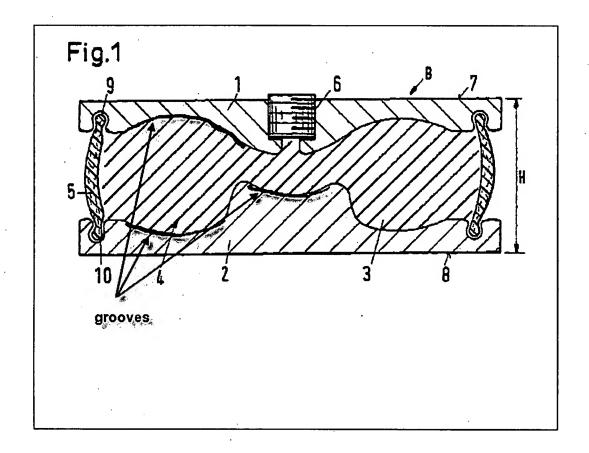
Xavier et al. teach the basic claimed device as set forth above regarding claims 1 and 8. Xavier et al. teach a prosthesis with connection means including ligatures (Column 4 Lines 20 through 45). Xavier et al. does not explicitly teach ligatures that pass through first holes provided in the anchor plates and corresponding second holes. Nonetheless, it is well known in the art that the means of connecting ligatures could be internal to the device. At the time of the invention, it would have been obvious to a person of ordinary skill in the art would have found it obvious to have used internal ligatures in the device of Xavier et al. The motivation to do so would have been to offer an alternative and equivalent means of securing the ligatures in place with less exposure to the surrounding body tissue and fluid.

Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Xavier et al (US Pat 6063121) as applied to claims 1 above and further in view of Casutt (US PG Pub 2003/0045939).

Regarding Claim 10: Xavier et al. teach a prosthesis with anchoring plates.

Xavier et al. does not teach a groove on each of the anchoring plates in contact with the elastic body, said grooves oriented parallel to each other. Casutt teaches an artificial intervertebral disc with a groove in each plate, said grooves being concentric to each other, therefore parallel. See the drawing below.

Art Unit: 3709



At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the grooves found in Casutt's device in Xavier et al.'s prosthesis. The motivation would have been to provide an additional means of securing the elastic body to the plates in order to prevent slippage between the elements.

Claims 12 through 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Voydeville in view of Xavier et al (US Pat 6063121).

Xavier et al. teaches a similarly claimed prosthesis as stated above. Xavier et al. does not teach a prosthesis with an auxiliary ligament nor a method of attaching the

Art Unit: 3709

ligament to the prosthesis. However, Voydeville teaches an auxiliary ligament/flexible ligament (Figure 7 Element 2) and a means of engaging said auxiliary ligament to one or both of the anchoring plates (Figure 7 Elements 3 and 5). Xavier et al. and Voydeville are analogous art because they are concerned with the same field of endeavor, namely intervertebral prostheses. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use Voydeville's ligament in Xavier et al.'s prosthesis. The motivation would be to offer a less invasive approach to securing the device by attaching the extra ligament (Figure 7 Elements 3 and 5) to the lateral hooks of the device and to the vertebrae.

Regarding Claims 15 and 16: Xavier et al. teaches two lateral hooks/anchoring loops (Figure 3 Elements 36 and 60).

### Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexis M. Wistermayer whose telephone number is 571-272-1197. The examiner can normally be reached on Monday - Friday 8 am - 4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on 571-272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3709

Page 7

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AMW 8/6/07

MARK EASHOO, PH.D. SUPERVISORY PATENT EXAMINER

66/ Aug 107